

Title (en)
Endoscopic stapling device

Title (de)
Endoskopische Klammergerät

Title (fr)
Dispositifs d'agrafage endoscopique

Publication
EP 2478849 A3 20170830 (EN)

Application
EP 12156139 A 20090318

Priority
• EP 09722297 A 20090318
• US 5016908 A 20080318

Abstract (en)
[origin: EP2478849A2] Described herein is a stapling device and method used to apply one or more fasteners to body tissue. In one embodiment, a fastener-applying device, which is preferably a stapler, is passed transorally into the stomach and used to plicate stomach tissue by engaging tissue from inside of the stomach and drawing it inwardly. In the disclosed embodiments, the tissue is drawn inwardly into a vacuum chamber, causing sections of serosal tissue on the exterior of the stomach to be positioned facing one another. The disclosed staplers allow the opposed sections of tissue to be moved into contact with one another, and preferably deliver staples for maintaining contact between the tissue sections at least until serosal bonds form between them. Each of these steps may be performed wholly from the inside of the stomach and thus can eliminate the need for any surgical or laparoscopic intervention. After one or more plications are formed, medical devices may optionally be coupled to the plication(s) for retention within the stomach.

IPC 8 full level
A61B 17/115 (2006.01)

CPC (source: CN EP US)
A61B 17/00234 (2013.01 - CN); **A61B 17/0644** (2013.01 - CN); **A61B 17/072** (2013.01 - US); **A61B 17/07207** (2013.01 - CN); **A61B 17/10** (2013.01 - CN); **A61B 17/115** (2013.01 - EP US); **A61B 17/1155** (2013.01 - CN); **A61F 5/0083** (2013.01 - EP US); **A61B 17/064** (2013.01 - EP US); **A61B 17/32053** (2013.01 - EP US); **A61B 2017/00539** (2013.01 - EP US); **A61B 2017/00818** (2013.01 - US); **A61B 2017/07271** (2013.01 - US); **A61B 2017/306** (2013.01 - EP US); **A61F 5/0013** (2013.01 - EP US)

Citation (search report)
• [XD] US 2007219571 A1 20070920 - BALBIERZ DANIEL J [US], et al
• [A] US 6663639 B1 20031216 - LAUFER MICHAEL D [US], et al
• [AD] WO 2005037152 A1 20050428 - SYNECOR LLC [US], et al

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)
US 2009236388 A1 20090924; **US 7721932 B2 20100525**; AT E546100 T1 20120315; AU 2009225570 A1 20090924;
AU 2009225570 B2 20140717; CA 2719716 A1 20090924; CA 2719716 C 20160510; CN 102065778 A 20110518; CN 102065778 B 20141029;
CN 103800042 A 20140521; CN 103800042 B 20160302; CN 104434253 A 20150325; CN 104434253 B 20171124; EP 2265192 A2 20101229;
EP 2265192 B1 20120222; EP 2478849 A2 20120725; EP 2478849 A3 20170830; ES 2383993 T3 20120628; JP 2011515158 A 20110519;
JP 5551148 B2 20140716; KR 20110036791 A 20110411; US 2009236389 A1 20090924; US 2009236390 A1 20090924;
US 2009236391 A1 20090924; US 2009236392 A1 20090924; US 2009236394 A1 20090924; US 2009236396 A1 20090924;
US 2009236397 A1 20090924; US 2009236398 A1 20090924; US 2009236400 A1 20090924; US 2009236401 A1 20090924;
US 2011174864 A1 20110721; US 2015001274 A1 20150101; US 7708181 B2 20100504; US 7909219 B2 20110322; US 7909222 B2 20110322;
US 7909223 B2 20110322; US 7913892 B2 20110329; US 7922062 B2 20110412; US 8020741 B2 20110920; US 8864008 B2 20141021;
US 9636114 B2 20170502; WO 2009117533 A2 20090924; WO 2009117533 A3 20091112

DOCDB simple family (application)
US 5287408 A 20080321; AT 09722297 T 20090318; AU 2009225570 A 20090318; CA 2719716 A 20090318; CN 200980117983 A 20090318;
CN 201310157921 A 20090318; CN 201410480496 A 20090318; EP 09722297 A 20090318; EP 12156139 A 20090318;
ES 09722297 T 20090318; JP 2011500938 A 20090318; KR 20107023263 A 20090318; US 2009037586 W 20090318;
US 201113053133 A 20110321; US 201414487936 A 20140916; US 5016908 A 20080318; US 5288508 A 20080321; US 5299708 A 20080321;
US 5301008 A 20080321; US 5302708 A 20080321; US 5306608 A 20080321; US 5318208 A 20080321; US 5319908 A 20080321;
US 5323908 A 20080321; US 5325708 A 20080321